

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): An EUV light source which comprises:
an X-ray tube, having a primary target; and
a secondary target adapted to be irradiated with X-rays emitted from the X-ray tube;
wherein fluorescence X-rays selected from the group consisting of Be-K α line, Si-L line and Al-L line are emitted from the secondary target so as to impinge upon a diffraction grating, an artificial multilayer mirror or a filter, which is an object to be evaluated.
2. (original): The EUV light source as claimed in Claim 1, wherein the X-rays emitted from the X-ray tube excite electrons of a Si-K shell, which in turn generate Si-L line by cascade excitation.
3. (currently amended): The EUV light source as claimed in Claim 1, wherein a surface of the secondary target comprises an oxide film and wherein an the oxide film on a surface of the secondary target is removed prior to irradiation of the secondary target.
4. (currently amended): The EUV light source as claimed in Claim 1, further comprising a poly-capillary for concentrating which concentrates the first X-rays emitted from the X-ray tube before they the secondary target is irradiated by the first X-rays are projected onto the secondary target.

5. (currently amended): The EUV light source as claimed in Claim 1, further comprising at least one of an artificial multilayer mirror ~~or and~~ a total reflection mirror, and wherein ~~the second X-rays generated from~~~~emitted~~ by the secondary target are monochromated into the single fluorescence X-rays by means of the at least one of the artificial multilayer mirror ~~or and~~ the total reflection mirror.